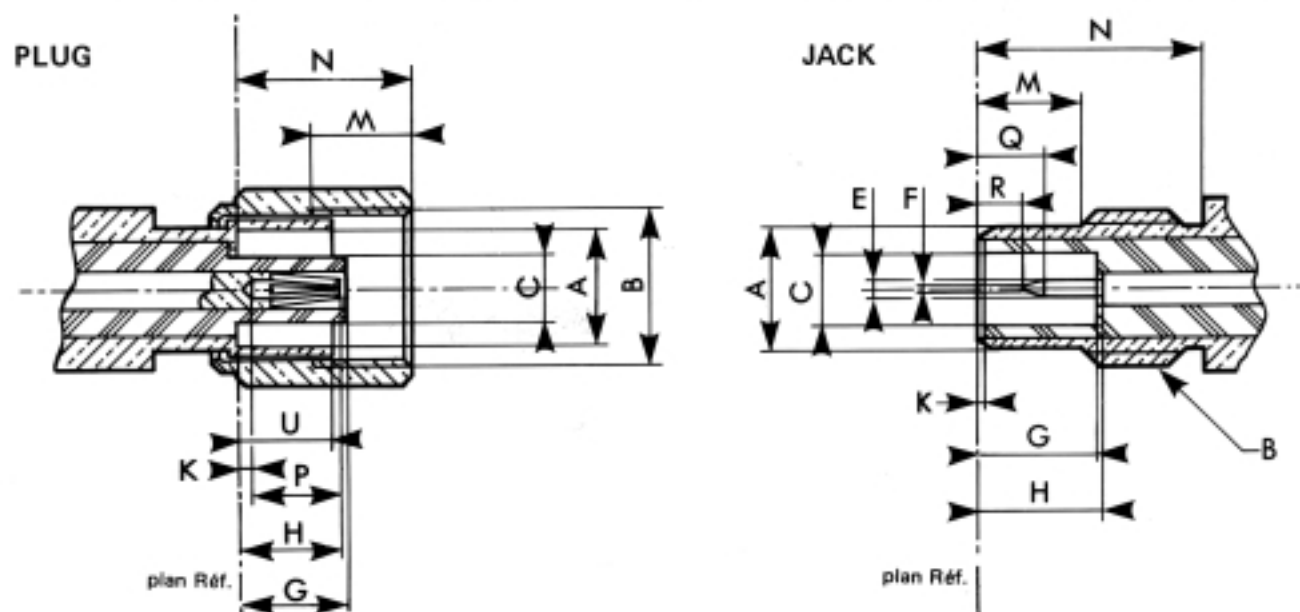


REQUIREMENT	MIL - C - 39012 paragraph	GENERAL SPECIFICATIONS		
ELECTRICAL				
Impedance		50 Ω		
Frequency range		0 - 10 GHz		
V.S.W.R.	3 - 14	cable	2/50	2,6/50
		straight	1,25 + 0,04 F (GHz)	1,20 + 0,04 F (GHz)
		right angle	1,40 + 0,06 F (GHz)	1,30 + 0,04 F (GHz)
Insertion loss	3 - 27	straight	: 0,25 dB max. at 4 GHz	
		right angle	: 0,5 dB max. at 4 GHz	
		- 60 dB min. between 2 and 3 GHz		
RF leakage	3 - 26			
Insulation resistance	3 - 11	1000 megohms min.		
Contact resistance	3 - 16		Initial	After environment
		Centre contact (m Ω)	6	8
		Outer contact (m Ω)	1	1,5
Voltage rating (volts RMS)		cable 2/50 : at sea level	250 V, at 70000 ft	60 V
		cable 2,6/50 : at sea level	335 V, at 21000 m	85 V
Dielectric withstanding voltage	3 - 17	cable 2/50 : at sea level	750 V, at 70000 ft	185 V
		cable 2,6/50 : at sea level	1000 V, at 21000 m	250 V
RF high potential withstanding voltage (Frequency 5 MHz)	3 - 23	cable 2/50 : at sea level	500 V	
		cable 2,6/50 : at sea level	700 V	
MECHANICAL				
Life	3 - 15	500 matings		
Force to engage and disengage	3 - 5 - 1	torque : 16 inch-ounces max. - 11,3 Ncm		
Mating torque		35 to 50 inch-ounces - 25 to 35 Ncm		
Coupling nut proof torque		100 inch-ounces - 71 Ncm		
Coupling nut retention force	3 - 25	35 lbs. min. - 156 N min.		
Cable retention force	3 - 24	cable 2/50 : 13 lbs - 58 N and cable 2,6/50 : 25 lbs - 110 N		
Contact captivation		axial force : 4 lbs - 18 N. torque : not applicable.		
ENVIRONMENTAL				
Operating temperature range		standard models	: - 65°C + 165°C	
		hermetic	: - 65°C + 165°C	
		semi rigid cables	: - 65°C + 105°C	
Temperature cycling		MIL - STD - 202, method 102, condition C		
Thermal shock	3 - 20	MIL - STD - 202, method 107, condition B		
High temperature test		MIL - STD - 202, method 108		
Corrosion (salt spray)	3 - 13	MIL - STD - 202, method 101, condition B, 5%		
Vibration	3 - 18	MIL - STD - 202, method 204, condition D, 20 g		
Shock	3 - 19	MIL - STD - 202, method 213, condition C, 100 g		
Moisture resistance	3 - 21	not applicable		
Barometric pressure	3 - 22	MIL - STD - 202, method 105, condition C		
Hermetic test		down to 10 ⁻⁶ mm Hg (Torr)		
		leak rate < 1 x 10 ⁻⁶ atm/cm ³ /sec		
MATERIALS				
Bodies and male contacts		brass, half hard per QQ - B - 626		
Female contacts and interfaces		beryllium copper per QQ - C - 530		
Ferrules		brass		
Insulators		PTFE teflon		
Gaskets		silicone rubber		
PLATING				
Body		gold to satisfy the corrosion requirements		
Centre contacts		gold		



SMC

Letter	PLUG				JACK			
	mm		Inch		mm		Inch	
	min.	max.	min.	max.	min.	max.	min.	max.
Ø A	3,73	—	.147	—	—	3,71	—	.146
B	N° 10 - 32 UNF - 2 B				N° 10 - 32 UNF - 2 A			
Ø C	—	2,06	—	.081	2,08	—	.082	—
Ø E	—	—	—	—	0,48	0,53	.019	.021
Ø F	—	—	—	—	—	0,25	—	.010
G	—	3,40	—	.134	3,40	—	.134	—
H	—	3,40	—	.134	3,40	—	.134	—
K	—	—	—	—	000	—	000	—
M	2,79	—	.110	—	3,12	3,38	.123	.133
N	—	5,92	—	.233	5,94	—	.234	—
P	2,79	—	.110	—	—	—	—	—
Q	—	—	—	—	—	2,13	—	.084
R	—	—	—	—	0,61	—	.024	—
U	—	3,10	—	.122	—	—	—	—